

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/BR 2004/000174

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC<sup>7</sup>: B65 G47/91, B65G 54/00, B65G 47/14**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC<sup>7</sup>: B65G**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 722 432 A (COLLEEN STATON) 2 February 1988 (02.02.1988) <i>figures 1, 3, 4, 10; claims 1, 3.</i>	1, 2, 4
A	<i>figures 1, 4, 5, 10; claim 1.</i>	3, 5-9
—		
A	US 4 535 584 A (NOBUTAKA TSUBOTA) 20 August 1985 (20.08.1985) <i>figures 1, 4, 9; claim 1.</i>	1, 2, 5-9
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A	US 4 585 113 A (JOSEPH D. GREENWELL) 29 April 1986 (29.04.1986) <i>figures 2, 3, 9; claims 1-4.</i>	1, 2, 5-9
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Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
"&" document member of the same patent family

Date of the actual completion of the international search  
9 December 2004 (09.12.2004)

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Name and mailing address of the ISA/ AT  
**Austrian Patent Office**  
Dresdner Straße 87, A-1200 Vienna  
Facsimile No. +43 / 1 / 534 24 / 535

Authorized officer  
**RAUMAUF H.**

Telephone No. +43 / 1 / 534 24 / 342

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 36 10 953 A (FRANZ HAAS GmbH) 9 October 1986 (09.10.1986) <i>figures 1, 3, 4, 7, 8; claim 1.</i> —	1, 2, 5-9

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International application No. PCT/BR 2004/000174
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Patent document cited in search report		Publication date	Patent family member(s)			Publication date
DE A	3610953	1986-10-09	AT	A	101585	1990-03-15
			AT	B	391244B	1990-09-10
			US	A	4710117	1987-12-01
			GB	A	2174056	1986-10-29
US A	4535584	1985-08-20	DE	D	3376260D	1988-05-19
			MX	A	157277	1988-11-09
			AT	T	33470T	1988-04-15
			EP	A	0117920	1984-09-12
			CA	A	1226727	1987-09-15
US A	4585113	1986-04-29			none	
US A	4722432	1988-02-02	CA	C	1278004	1990-12-18